

AMENDMENTS TO THE CLAIMS

Please amend the claims of the present application as set forth below. In accordance with the PTO's revised amendment format, a detailed listing of all claims has been provided. This listing of claims will replace all prior versions and listings of claims in the application. Changes to the claims are shown by strikethrough (for deleted matter) and underlining (for added matter).

By way of overview, claims 1-34 are currently pending. The status of the pending claims is indicated below:

- a) Claims 1-3, 5, 6, 8-12, 14-17, 19-26, and 28-31 are original;
- b) Claims 4, 7, 13, 18, and 27 are currently amended; and
- c) Claims 32-34 are new.

Listing of Claims

1. (Original) A computer system user interface for statistical analysis comprising:
a data entry display screen configured to receive user input providing tabular data;
a configuration and control display screen configured to receive user input selecting a particular statistical analysis to be performed on the tabular data;
statistical computation means responsive to user input received in the configuration and control display screen to perform the particular statistical analysis using the tabular data entered by user input in the data entry display screen to generate statistical results wherein the statistical computation means is operable to retrieve and reformat the tabular data without user interaction; and

1 a results page display screen responsive to the statistical computation means and
2 to user input received in the configuration and control display screen to format and
3 display results of the statistical analysis.

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5 2. (Original) The user interface of claim 1 wherein the statistical computation
6 means includes:

7 means for computing the particular statistical analysis as one or more of: mean of
8 the response, median of a function response, standard deviation of a function response,
9 1st and 3rd quartile of a function response, stability factor of a function response,
10 percentiles of a function response, percentile span of a function response, mean of the
11 response using weighted data, median of the response using weighted data, standard
12 deviation of the response using weighted data, 1st and 3rd quartile of the response using
13 weighted data, stability factor of the response using weighted data, percentiles of the
14 response using weighted data, percentile span of the response using weighted data, mean
15 of the response for the top N elements, median of a function response for the top N
16 elements, standard deviation of a function response for the top N elements, 1st and 3rd
17 quartile of a function response for the top N elements, stability factor of a function
18 response for the top N elements, percentiles of a function response for the top N
19 elements, percentile span of a function response for the top N elements, mean of the
20 response using weighted data for the top N elements, median of the response using
21 weighted data for the top N elements, standard deviation of the response using weighted
22 data for the top N elements, 1st and 3rd quartile of the response using weighted data for
23 the top N elements, stability factor of the response using weighted data for the top N
24 elements, percentiles of the response using weighted data for the top N elements, and
25 percentile span of the response using weighted data for the top N elements.

1 3. (Original) The user interface of claim 1 further comprising:
2 a data store associated with the data entry display screen for persistent storage of
3 the tabular data,
4 wherein the statistical analysis computation means is operable to retrieve the
5 tabular data from the data store.

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7 4. (Currently amended) A method comprising:
8 receiving user input identifying desired analysis;
9 retrieving user data from a data store;
10 reformatting the user data in accordance with the desired analysis;
11 computing factors for the desired analysis;
12 formatting output from results of the computation for presentation to the user; and
13 presenting the output to the user in response to input from the user requesting
14 output presentation,
15 wherein the steps of retrieving, reformatting, computing and formatting are
16 automated, responsive to the step of receiving and otherwise substantially devoid of
17 interaction with the user for receiving input.

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19 5. (Original) The method of claim 4 further comprising:
20 receiving user input to enter the user data in a tabular format in advance of the
21 step of receiving user input identifying desired analysis.

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23 6. (Original) The method of claim 5 further comprising:
24 transferring the user data entered in tabular format to a database.
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1 7. (Currently amended) The method of claim ~~[[4]]~~ 6 wherein the step of
2 reformatting comprises:

3 retrieving the user data from the database such that the user data is in a different
4 format than the tabular format.

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6 8. (Original) The method of claim 4 wherein the step of receiving comprises:
7 receiving user input identifying the desired analysis as one or more of: mean of
8 the response, median of a function response, standard deviation of a function response,
9 1st and 3rd quartile of a function response, stability factor of a function response,
10 percentiles of a function response, percentile span of a function response, mean of the
11 response using weighted data, median of the response using weighted data, standard
12 deviation of the response using weighted data, 1st and 3rd quartile of the response using
13 weighted data, stability factor of the response using weighted data, percentiles of the
14 response using weighted data, percentile span of the response using weighted data, mean
15 of the response for the top N elements, median of a function response for the top N
16 elements, standard deviation of a function response for the top N elements, 1st and 3rd
17 quartile of a function response for the top N elements, stability factor of a function
18 response for the top N elements, percentiles of a function response for the top N
19 elements, percentile span of a function response for the top N elements, mean of the
20 response using weighted data for the top N elements, median of the response using
21 weighted data for the top N elements, standard deviation of the response using weighted
22 data for the top N elements, 1st and 3rd quartile of the response using weighted data for
23 the top N elements, stability factor of the response using weighted data for the top N
24 elements, percentiles of the response using weighted data for the top N elements, and
25 percentile span of the response using weighted data for the top N elements.

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9. (Original) A method comprising:

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presenting a spreadsheet to a user on a display wherein the spreadsheet comprises

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a plurality of pre-defined pages;

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receiving tabular data in a canonical form into a data page of the plurality of pre-

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defined pages;

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receiving configuration input into a user interaction page of the plurality of pre-

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defined pages wherein the configuration input indicates a type of statistical analysis to be

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performed and indication of elements involved in the statistical analysis;

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automatically reformatting the tabular data in accord with the type of statistical

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analysis without further user interaction;

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automatically performing the indicated statistical analysis for all indicated

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elements without further interaction wherein the statistical analysis identifies a significant

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factor in the tabular data; and

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generating results of the statistical analysis in a result page of the plurality of pre-

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defined pages wherein the results identify the significant factor.

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10. (Original) The method of claim 9 wherein the step of receiving configuration

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information comprises:

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receiving user input identifying portions of the tabular data representing elements

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for the statistical analysis and user input identifying portions of the tabular data

22

representing a response for the statistical analysis.

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11. (Original) The method of claim 10 wherein the step of receiving configuration

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input further comprises:

1 receiving user input as the configuration input identifying the type of statistical
2 analysis as one or more of: mean of the response, median of the response, standard
3 deviation of the response, 1st and 3rd quartile of the response, stability factor of the
4 response, percentiles of the response, and percentile span of the response.

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6 12. (Original) The method of claim 9 wherein the step of generating results
7 comprises:

8 generating results as tabular output in the results page.
9

10 13. (Currently amended) The method of claim 9 wherein the step of generating
11 results comprises:

12 generating results as graphical output in the results page.
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14 14. (Original) The method of claim 9 wherein the step of receiving configuration
15 input comprises:

16 receiving user input identifying relevant elements within the tabular data and a
17 corresponding response within the tabular data.
18

19 15. (Original) The method of claim 14 wherein the step of performing the
20 statistical analysis comprises:

21 determining a difference between the mean of a studied element of said relevant
22 elements and all other elements of said relevant elements to determine significance of the
23 studied element.
24
25

1 16. (Original) The method of claim 14 wherein the step of performing the
2 statistical analysis comprises:

3 determining a difference between a standard deviation of a studied element of said
4 relevant elements and all other elements of said relevant elements to determinc
5 significance of the studied element.
6

7 17. (Original) The method of claim 14 wherein the step of performing the
8 statistical analysis comprises:

9 determining a difference between percentiles of a studied element of said relevant
10 elements and all other elements of said relevant elements to determine significance of the
11 studied element.
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13 18. (Currently amended) A computer readable storage medium tangibly
14 embodying program instructions for a method, the method comprising:

15 receiving user input identifying desired analysis;
16 retrieving user data from a data store;
17 reformatting the user data in accordance with the desired analysis;
18 computing factors for the desired analysis;
19 formatting output from results of the computation for presentation to the user; and
20 presenting the output to the user in response to input from the user requesting
21 output presentation,

22 wherein the method steps of retrieving, reformatting, computing and formatting
23 are automated, responsive to the method step of receiving and otherwise substantially
24 devoid of interaction with the user for receiving input.
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1 19. (Original) The medium of claim 18 further comprising:

2 receiving user input to enter the user data in a tabular format in advance of the
3 method step of receiving user input identifying desired analysis.

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5 20. (Original) The medium of claim 19 further comprising: transferring the user
6 data entered in tabular format to a database.

7
8 21. (Original) The medium of claim 20 wherein the method step of reformatting
9 comprises:

10 retrieving the user data from the database such that the user data is in a different
11 format than the tabular format.

12
13 22. (Original) The medium of claim 18 wherein the method step of receiving
14 comprises:

15 receiving user input identifying the desired analysis as one or more of: mean of
16 the response, median of a function response, standard deviation of a function response,
17 1st and 3rd quartile of a function response, stability factor of a function response,
18 percentiles of a function response, percentile span of a function response, mean of the
19 response using weighted data, median of the response using weighted data, standard
20 deviation of the response using weighted data, 1st and 3rd quartile of the response using
21 weighted data, stability factor of the response using weighted data, percentiles of the
22 response using weighted data, percentile span of the response using weighted data, mean
23 of the response for the top N elements, median of a function response for the top N
24 elements, standard deviation of a function response for the top N elements, 1st and 3rd
25 quartile of a function response for the top N elements, stability factor of a function

1 response for the top N elements, percentiles of a function response for the top N
2 elements, percentile span of a function response for the top N elements, mean of the
3 response using weighted data for the top N elements, median of the response using
4 weighted data for the top N elements, standard deviation of the response using weighted
5 data for the top N elements, 1st and 3rd quartile of the response using weighted data for
6 the top N elements, stability factor of the response using weighted data for the top N
7 elements, percentiles of the response using weighted data for the top N elements, and
8 percentile span of the response using weighted data for the top N elements.

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10 23. (Original) A computer readable storage medium tangibly embodying program
11 instructions for a method, the method comprising:

12 presenting a spreadsheet to a user on a display wherein the spreadsheet comprises
13 a plurality of pre-defined pages;

14 receiving tabular data in a canonical form into a data page of the plurality of pre-
15 defined pages;

16 receiving configuration input into a user interaction page of the plurality of pre-
17 defined pages wherein the configuration input indicates a type of statistical analysis to be
18 performed and indication of elements involved in the statistical analysis;

19 automatically reformatting the tabular data in accord with the type of statistical
20 analysis without further user interaction;

21 automatically performing the indicated statistical analysis for all indicated
22 elements without further interaction wherein the statistical analysis identifies a significant
23 factor in the tabular data; and

24 generating results of the statistical analysis in a result page of the plurality of pre-
25 defined pages wherein the results identify the significant factor.

1 24. (Original) The medium of claim 23 wherein the method step of receiving
2 configuration information comprises:

3 receiving user input identifying portions of the tabular data representing elements
4 for the statistical analysis and user input identifying portions of the tabular data
5 representing a response for the statistical analysis.
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7 25. (Original) The medium of claim 24 wherein the method step of receiving
8 configuration input further comprises:

9 receiving user input as the configuration input identifying the type of statistical
10 analysis as one or more of: mean of the response, median of the response, standard
11 deviation of the response, 1st and 3rd quartile of the response, stability factor of the
12 response, percentiles of the response, and percentile span of the response.
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14 26. (Original) The medium of claim 23 wherein the method step of generating
15 results comprises:

16 generating results as tabular output in the results page.
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18 27. (Currently amended) The medium of claim 23 wherein the method step of
19 generating results comprises:

20 generating results as graphical output in the results page.
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22 28. (Original) The medium of claim 23 wherein the method step of receiving
23 configuration input comprises:

24 receiving user input identifying relevant elements within the tabular data and a
25 corresponding response within the tabular data.

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3 29. (Original) The medium of claim 28 wherein the method step of performing the
4 statistical analysis comprises:

5 determining a difference between the mean of a studied element of said relevant
6 elements and all other elements of said relevant elements to determine significance of the
7 studied element.
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9 30. (Original) The medium of claim 28 wherein the method step of performing the
10 statistical analysis comprises:

11 determining a difference between a standard deviation of a studied element of said
12 relevant elements and all other elements of said relevant elements to determine
13 significance of the studied element.
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15 31. (Original) The medium of claim 28 wherein the method step of performing the
16 statistical analysis comprises:

17 determining a difference between percentiles of a studied element of said relevant
18 elements and all other elements of said relevant elements to determine significance of the
19 studied element.
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21 32. (New) The user interface of claim 1 wherein the statistical analysis is
22 configured to find at least one statistically significant factor affecting a given response
23 within the user input data.
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1 33. (New) The method of claim 4 wherein the computing of factors for the desired
2 analysis comprises finding statistically significant factors affecting a given response
3 within the user data.
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5 34. (New) The medium of claim 18 wherein the computing of factors for the
6 desired analysis comprises finding statistically significant factors affecting a given
7 response within the user data.
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